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James Arthur Foster

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[Siddharth Choudhury](#), [Tony Givargis](#)

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Increasing use of NAND flash in newer application domains has been possible due to lowering cost per GB, consumer demands for storage and advantages of NAND flash over traditional disks. However, NAND flash has idiosyncrasies resulting in asymmetric.

Keywords NAND flash, embedded systems, file system, real-time

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[André Adelsbach](#), [Jörg Schwaninger](#)

September 2004

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CSS, the first system to protect multimedia content on the new DVD medium failed badly, because both its encryption algorithm and its key management could easily be broken. A new industry initiative, the 4C Entity LLC (founded by IBM, Intel, Matsushita ...)

Keywords CPPM, content protection, device revocation, key-assignment, key-management

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Wen Tao Zhu

Multimedia, IEEE Transactions on

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Hongxia Jin, Lefeng Chen, J. Computer Security Applications Conference, 2009. ACSAC '09. Annual

Digital Object Identifier: 10.1109/ACSAC.2009.23

Publication Year: 2009, Page(s): 109 - 148

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A Cost-Efficient Secure Multimedia Proxy System

Wen Tao Zhu, Multimedia, IEEE Transactions on Volume: 10, Issue: 6

Digital Object Identifier: 10.1109/TMM.2008.2001376

Publication Year: 2008, Page(s): 1214 - 1220

IEEE JOURNALS

The long march to interoperable digital rights management

KOENEN, R. H., LAJZY, J., MACKAY, M., MITCHELL, S. J.

Proceedings of the IEEE

Volume: 92, Issue: 6

Digital Object Identifier: 10.1109/JPROC.2004.827357

Publication Year: 2004, Page(s): 880 - 897

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Digital rights management in consumer electronics products

Junker, W., Linnartz, J.-P.,

Signal Processing Magazine, IEEE

Volume: 21, Issue: 2

Digital Object Identifier: 10.1109/MSP.2004.1276116

Publication Year: 2004, Page(s): 82 - 91

Cited by: 9

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Anonymous trust: digital rights management using broadcast encryption

Lotspeich, J., Nussler, S., Pustori, F.,

Proceedings of the IEEE

Volume: 92, Issue: 6

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Publication Year: 2004, Page(s): 898 - 909

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New File System with Conditional Access System for Removable Media

Ishikawa, Kyohiko, Nishimoro, Yusui, Fujii, Aisai, Fujitsu,

Systems, Sunagaki, Shunji, Konuma, Takeshi,

Consumer Communications and Networking Conference, 2007.

CCNC 2007, 4th IEEE

Digital Object Identifier: 10.1109/CCNC.2007.34

Publication Year: 2007, Page(s): 135 - 139

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Key-assignment strategies for CPPM

[A. K. K. ... Proceedings of the 2004 Workshop on ... 2004 - \[IEEE\]\(#\)](#)
 the identifier and the copy-control-information (CCI) and uses it to **encrypt the content** ... devices that both have computed the correct temporary key and possess a **device key** with the ... If decryption of the key-cryptogram was successful, the temporary **media key** is updated as Kimp ...

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[\[PDF\] from pub.erdc](#)**[PDF] An Overview of the Advanced Access Content System (AACS)**

[K. Henry, J. ... Computing Applied Cryptographic Research \(... 2007 - \[Springer\]\(#\)](#)
 ... Volume Unique Key (Kvu) Volume Unique Key is used to **encrypt** the Title Key. ... output of a one-way function, AES-G, which takes as inputs the Volume ID and the **Media Key**. ... **Device Key**. **Device Keys** serve the same purpose as labels in the subset difference revocation scheme. ...

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[W. Zhu, ... Multimedia, IEEE Transactions on, 2008 - \[IEEE\]\(#\)](#)
 ... For instance, different from text documents, it is unnecessary to **encrypt** the entire multimedia data for ... The no-tions of MKB and **device key** are from copyright protection technologies like DVD ... 3), where the MKB on a DVD contains the encrypted forms of the **media key** (ie, the ...

[ResearchGate](#) - [All 3 versions](#)
A security analysis of some physical content distribution systems

[S. Jitkumha, ... 2008 - \[University of Waterloo\]\(#\)](#)
 ... table is compromised, instead of using it to **encrypt the media key**, it is used to **encrypt** a link key K_L. Otherwise, the **device key** is used to **encrypt the media key**. The ciphertexts are then included in the CMKR. Just by processing the CMKR, 15 Page 26. ...

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[W. Bros, ... 2006 - \[aacsia.com\]\(#\)](#)
 ... AACS LA provides secret **Device Keys** and **Sequence Keys** to licensed manufacturers for inclusion in compliant playback devices/applications (**Device Key** sets and ... and its **Sequence Keys** to process the SKB, the device will calculate a particular **Media Key Variant**. ... **Compare** ...

[View on IEEE](#) - [All 10 versions](#)
[\[PDF\] from aacsia.com](#)**Trusted Computing and Digital Rights Management Clearinghouse**

[A. Champion, ... 2007 - \[korea.edu\]\(#\)](#)
 ... 2007 [298]. However, in their zeal to protect intellectual property, the **content** and ... If C = E(P), [where P is one out of n possible plaintexts.] then a cryptanalyst [need only] **encrypt** all n possible plaintexts and **compare** the results with C [to determine P]. ... 16 Page 28. ...

[ResearchGate](#) - [Library Search](#) - [All 13 versions](#)
[\[PDF\] from korea.edu](#)**Applications of broadcast encryption schemes and related technical mechanisms for digital rights management of multimedia broadcasts**

[D. Grevier, ... 2006 - \[Copyright Clearance Center\]\(#\)](#)
 ... use cases. By doing this we can demonstrate that the proposed schemes can be used to meet requirements for securing content regarding pay-per-view broadcasts as well as media distribution. ... 201 A.3 No Free-riders (**Compare** 50 to 100 Shares)

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[Unifying broadcast encryption and traitor tracing for content protection](#)[\[PDF\] from ibm.com](#)H Jin ... • Computer Security Applications ... 2009 • [ieee.org](#)

... A. Preliminaries Media Key Variant (KmV): Any of several valid **media keys** that can be obtained by processing the new media key block ... Title Key (Kt): The key actually used to **encrypt and decrypt** the segments in the content ...

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H Jin ... • Emerging Challenges for Security, Privacy and Trust: 2009 • Springer

... An index of the device keys used to **encrypt** the **media keys** ... Class B devices also have the ability to process class A content. To do that, it will use the media key precursor Km2 and a one-way function to calculate a media key Km1 to **decrypt** class A content ...

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K Henry ... • Online for Academic Cryptographic Research ... 2007 • 32bit.co

... Each has length 128 bits and can be derived from the Device Keys. Processing Keys are used to **encrypt** the Media Key ... The Encrypted Media Keys are included in the MKB, and only privileged users are able to **decrypt** one of them to recover the Media Key ...

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... keys to devices and **encrypt** the content that can guarantee that only compliant devices can **decrypt** the content ... The device keys used to **encrypt** the media key are chosen in a way as to cover all ... For example, the attackers can setup a server that sells the **media keys** on demand ...

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... frontier but we will use different valid **media keys** to enable them instead of one single valid media key ... devices in group (sub-tree) marked in X will use their corresponding subset keys to **encrypt** media key ... device will only be able to **decrypt** one of the variations for each segment ...

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... Bus (or session) key: A key generated during the protocol to **encrypt** keys passed over the bus ... Combined with the tree structure for describing revocation, the list of **media keys**, encrypted with these ... process (via the CRL) and also from being able to correctly **decrypt** the contents ...

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... of previous section, Media Key Data of I-MKB consists of encrypted **media keys** with device ... and security Using both SHA1 and above password information, we compute Kp and **encrypt** Km with ... Key Data has been constructed for only indicated devices to be able to **decrypt** it ...

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... Once this initial exchange of parsed MKBs is complete, then both devices know the two **media keys** and use them ... In other words, more than one cell would **encrypt** the same variant key ... on in a useful way, the original device would also have to pass the key to **decrypt** the content ...

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... 2) At this point, we can see that unauthorized "Media Keys" which might be used by software ... This key will be used to re-**encrypt** the "Key Melody," which had been decrypted before ... 2) Before being able to play the protected media, the player will **decrypt** the "Reproduction Key ...

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... This shared symmetric key is then used to **encrypt** whatever content (such as a reality show) that the content provider wishes to broadcast ... If it was not changed, the user would in that case be able to **decrypt** broadcasts which occurred before the user joined the 4 ...

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